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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

(1 Of Auto 50 and Rule 70)				
Applicant's or agent's file reference 504908 GWW	FOR FURTHER AC	CTION	See Form PCT/IPEA/416	
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)	
PCT/NZ2004/000118	9 June 2004		9 June 2003	
International Patent Classification (IPC) or	national classification	and IPC	 	
Int. Cl. 7 A63B 5/11				
Applicant .				
BOARD & BATTEN INTERNA	TIONAL INC, et al	•		
This report is the international preliminal Authority under Article 35 and transmit			rnational Preliminary Examining	
2. This REPORT consists of a total of 4	sheets, including this	over sheet.		
3. This report is also accompanied by ANI	NEXES, comprising:		ŕ	
a. X (sent to the applicant and to the		a total of 7 sheets, as	s follows:	
sheets of the description,	claims and/or drawings	which have been amen	ded and are the basis for this report and/or	
sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede ea	rlier sheets, but which	this Authority consider	s contain an amendment that goes beyond	
the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bured	u only) a total of (indic	ate type and number of	electronic carrier(s)) , containing	
a sequence listing and/or table a Relating to Sequence Listing (s			y, as indicated in the Supplemental Box	
4. This report contains indications relating			Jusy.	
X Box No. I Basis of the repo		•		
Box No. II Priority	••			
)	nt of ominion with soos		aton and industrial applicability	
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	Sox No. IV Lack of unity of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain documen	ts cited	•		
Box No. VII Certain defects in	n the international appli	cation		
X Box No. VIII Certain observati	X Box No. VIII Certain observations on the international application			
Date of submission of the demand Date of completion of the report			the report	
7 March 2005		19 September 2005	-	
Name and mailing address of the IPEA/AU		Authorized Officer		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

Box No. I Basis of the report	PCT/NZ2004/000118	
otherwise indicated under this item.		
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	uage ·	
international search (under Rules 12.3 and 23.1 (b))		
publication of the international application (under Rule 12.4)		
international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements of the internation (under Rules 55.2 and/or 55.3)		
furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):		
the international application as originally filed/furnished		
X the description:		
pages 1 to 11 as originally filed/furnished		
pages* received by this Authority on with the letter of		
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pages* 12 to 18 received by this Authority on 15 July 2005 with pages* received by this Authority on with the letter of X the drawings:	h the letter of 15 July 2005	
pages 1 to 11 as originally filed/furnished		
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a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence		
3. The amendments have resulted in the cancellation of:		
the description, pages	į	
the claims, Nos.		
the drawings, sheets/figs		
the sequence listing (specify):		
any table(s) related to the sequence listing (specify):		
This report has been established as if (some of) the amendments annexed to this report armade, since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)).	nd listed below had not been in the Supplemental Box (Rule	
the description, pages		
the claims, Nos.		
the drawings, sheets/figs		
the sequence listing (specify):		
any table(s) related to the sequence listing (specify):		
If item 4 applies, some or all of those sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NZ2004/000118

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial app	licability;
	s and explanations supporting such statement	

1.	Statement		
	Novelty (N)	Claims 1 to 35	YES
		Claims	NO
	Inventive step (IS)	Claims	YES
		Claims 1 to 35	NO
	Industrial applicability (IA)	Claims 1 to 35	ÝES
' !		Claims	NO

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purposes of this report:

D1 WO 2003/043704 A1 (CANTERPRISE LIMITED) 30 May 2003

D2 US 6319174 B1 (ALEXANDER) 20 November 2001

D3 US 5941798 A (COAN et al.) 24 August 1999

D4 US 6053845 A (PUBLICOVER et al.) 25 April 2000

Novelty (N)

None of the above cited documents disclose all the features of independent claims 1, 14, 21 or 30 in their entirety and therefore claim 1 is novel. Appended claims 2 to 13, 15 to 20, 22 to 29 and 31 to 35 add further features to those defined in claim 1 and are therefore also novel.

Therefore the subject matter of claims 1 to 35 is new and meets the requirements of Article 33(2) PCT with regard to novelty.

Inventive Step (IS)

Safety nets for trampolines are well known and a large variety of designs and construction materials are known in the art. It is considered that it would be obvious for a person skilled in the art to adapt a tensioned safety net for a conventional trampoline such as disclosed in D4 (see in particular column 13 lines 30 to 67) to a trampoline having a mat supported by resiliently flexible rods as disclosed in ether of D1 or D2.

Therefore it is considered that amended claims 1 (see also Box No. VIII) and 14 lack an inventive step when either of D1 or D2 are read in the light of D3.

Furthermore it is considered that the features added by appended claims 2 to 13 and 15 to 35 relate to arrangements that are merely matters of design choice when the general technical knowledge about the state of the art is used and hence do not contribute to providing a patentable inventive step.

Therefore the subject matter of all of claims 1 to 35 is obvious and does not meet the requirements of Article 33(3) PCT with regard inventive step.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. Claim 1 is not clear and does not define the invention described in that it is not defined by what means, or to what, the upright enclosure members are retained at or towards their lower ends. It would appear from a reading of the specification as a whole that it is an essential feature of the invention that the upright enclosure members are retained by the base frame of the trampoline.
- From a reading of the specification as a whole it would appear that the invention resides in the following specific combination of features;
 - a flexible mat:
 - a plurality of resiliently flexible spring rods each extending between a base frame of the trampoline the periphery of the mat;
 - a barrier of flexible material surrounding the mat above the mat and having a lower peripheral part connected to the mat;
 - a plurality of resiliently flexible upright enclosure support members to support the barrier above the mat; the enclosure support members are outside the barrier relative to the mat:

the enclosure support member are connected to the trampoline only at their lower ends and connected at their upper ends to an upper peripheral part of the barrier;

the enclosure support members are retained by the frame of the trampoline below the level of the mat and are connected to the frame so that in their natural rest state they extend away from the mat; and,

the barrier has a flexible connecting element at its upper peripheral part which connects the upper ends of enclosure support members and which is in tension so it that draws the upper ends of the enclosure support members away from their natural rest state and towards the centre of the mat.

However none of the independent claims define this combination of features but variously include and omit these and other features. It is noted that <u>each</u> independent claim must define <u>all</u> the characterising features on the invention. Therefore claims 1, 14, 21 and 21 lack descriptive support because they each do not define the invention described.

WHAT WE CLAIM IS:

- A trampoline and enclosure system including:
 - a flexible mat;
- a plurality of resiliently flexible spring rods each having a lower end retained by a frame of the trampoline and an upper end coupled to the mat about a periphery of the mat;
- a barrier of a flexible material surrounding the mat above the mat and having a lower peripheral part coupled directly or indirectly to the mat; and
- a plurality of generally upright enclosure support members outside of the barrier relative to the mat which are resiliently flexible over at least the major part of the lengths thereof and which are retained at or towards the lower ends of the enclosure support members and which support the net above the mat, which are free to deform away from the mat when impacted by a user against an enclosure support member and/or against said barrier of flexible material, the barrier connecting together the enclosure support members at or towards an upper peripheral edge part of the barrier and at or towards the upper ends of the enclosure members so that at least said upper peripheral part of the net is in tension and so that such resilient deformation of one of the enclosure support members away from the mat causes resilient deformation of opposite enclosure support members towards the mat.
- 2. A trampoline and enclosure system according to claim 1, wherein said barrier comprises a flexible net material.
- 3. A trampoline and enclosure system according to either of claims 1 and 2 wherein the enclosure support members are resiliently flexible rods.
- 4. A trampoline and enclosure system according to any one of claims 1 to 3, wherein the enclosure support members are pultruded fibreglass rods.
- 5. A trampoline and enclosure system according to any one of claims 1 to 4 wherein the barrier is supported by the enclosure support members by connections

between the barrier at or towards an upper peripheral edge part of the barrier and the enclosure support members at or towards the upper ends of the enclosure support members which draw the upper ends of the enclosure support members away from their natural rest state (when connected only at their lower ends to the frame of the trampoline), and towards the centre of the mat.

- 6. A trampoline and enclosure system according to any one of claims 1 to 4 including a flexible connecting element which connects the enclosure support members at or towards the upper ends of the enclosure support members to draw the upper ends of the enclosure support members away from their natural rest state (when connected only at their lower ends to the frame of the trampoline), and towards the centre of the mat.
- 7. A trampoline and enclosure system according to claim 6 wherein said flexible connecting element is fixed to or integral with the barrier at or towards an upper peripheral part of the barrier.
- 8. A trampoline and enclosure system according to any one of claims 1 to 7, wherein the enclosure support members are retained by the frame of the trampoline at about the level on the frame of the trampoline at which the lower ends of the flexible spring rods are also retained by the frame of the trampoline.
- 9. A trampoline and enclosure system according to any one of claims 1 to 8 wherein the lower ends of the enclosure support members are retained by the frame of the trampoline so that in their natural rest state (when connected only at the lower ends to the frame of the trampoline) the enclosure support members extend away from the mat.
- 10. A trampoline and enclosure system according to any one of claims 1 to 9 wherein the barrier includes a series of pockets on an outside of the barrier which engage over upper ends of the enclosure support members.

- 11. A trampoline and enclosure system according to claim 10 wherein said pockets are at least half the length of the enclosure support members.
- 12. A trampoline and enclosure system according to either of claims 10 and 11 wherein the enclosure support members each comprise an enlarged upper end.
- 13. A trampoline and enclosure system according to any one of claims 1 to 12 wherein the upper ends of the flexible spring rods pass through a lower peripheral section of the barrier below the mat to couple the barrier to the mat.
- 14. A trampoline and enclosure system including:
 - a flexible mat:
- a plurality of resiliently flexible spring rods each extending between a base frame of the trampoline and a periphery of the mat;
- a barrier of a flexible material surrounding the mat above the mat and having a lower peripheral part coupled directly or indirectly to the mat; and a plurality of enclosure support rods coupled to the trampoline only by a lower end of each enclosure support rod being retained by the base frame of the trampoline, and which extend above the mat to support the net above the mat, and which are each resiliently flexible over substantially the entire length thereof and which are the barrier connecting together the enclosure support members at or towards an upper peripheral edge part of the barrier and at or towards the upper ends of the enclosure members so that at least said upper peripheral part of the net is in tension and so that such resilient deformation of one of the enclosure support members away from the mat causes resilient deformation of opposite enclosure support members towards the mat.
- 15. A trampoline and enclosure system according to claim 14, wherein said barrier comprises a flexible net material.
- 16. A trampoline and enclosure system according to either of claims 14 and 15, wherein the enclosure support rods are pultruded fibreglass rods.

- 17. A trampoline and enclosure system according to any one of claims 14 to 16 wherein the barrier is supported by the enclosure support rods by connections between the barrier at or towards an upper peripheral edge part of the barrier and the enclosure support rods at or towards the upper ends of the enclosure support rods which draw the upper ends of the enclosure support rods away from their natural rest state (when connected only at their lower ends to the frame of the trampoline), and towards the centre of the mat.
- 18. A trampoline and enclosure system according to any one of claims 14 to 16 including a flexible connecting element which connects the enclosure support rods at or towards the upper ends of the enclosure support rods to draw the upper ends of the enclosure support rods away from their natural rest state (when connected only at their lower ends to the frame of the trampoline), and towards the centre of the mat.
- 19. A trampoline and enclosure system according to any one of claims 14 to 18, wherein the enclosure support rods are retained by the frame of the trampoline at about the level on the frame of the trampoline at which the lower ends of the flexible spring rods are also retained by the frame of the trampoline.
- 20. A trampoline and enclosure system according to any one of claims 14 to 19 wherein the lower ends of the enclosure support rods are retained by the frame of the trampoline so that the natural rest state (when connected only at the lower ends to the frame of the trampoline) the enclosure support rods extend away from the mat.
- 21. A trampoline and enclosure system including:
 - a flexible mat:
- a plurality of resiliently flexible spring rods each having a lower end retained by a frame of the trampoline and an upper end coupled to the mat about a periphery of the mat;
- a barrier of a flexible material surrounding the mat above the mat and having a lower peripheral part coupled directly or indirectly to the mat; and

- a plurality of resiliently flexible generally upright enclosure support members outside of the barrier relative to the mat and which are retained at or towards the lower ends of the enclosure support members by the frame of the trampoline and which support the barrier above the mat, which enclosure support members are connected together at or towards the upper ends of the enclosure support members to draw the upper ends of the enclosure support members away from their natural rest state (when connected only at their lower ends to the frame of the trampoline), and towards the centre of the mat to tension the barrier.
- 22. A trampoline and enclosure system according to claim 21, wherein said barrier comprises a flexible net material.
- 23. A trampoline and enclosure system according to either of claims 21 and 22 wherein the enclosure support members are resiliently flexible rods.
- 24. A trampoline and enclosure system according to any one of claims 21 to 23, wherein the enclosure support members are pultruded fibreglass rods.
- 25. A trampoline and enclosure system according to any one of claims 21 to 24 wherein the barrier is supported by the enclosure support members by connections between the barrier only at or towards an upper peripheral edge part of the barrier and the enclosure support members.
- 26. A trampoline and enclosure system according to any one of claims 21 to 24 including a flexible connecting element which connects the enclosure support members at or towards the upper ends of the enclosure support members.
- 27. A trampoline and enclosure system according to claim 26 wherein said flexible connecting element is fixed to or integral with the barrier at or towards an upper peripheral part of the barrier.

- 28. A trampoline and enclosure system according to any one of claims 21 to 27, wherein the enclosure support members are retained by the frame of the trampoline at about the level on the frame of the trampoline at which the lower ends of the flexible spring rods are also retained by the frame of the trampoline.
- 29. A trampoline and enclosure system according to any one of claims 21 to 28 wherein the lower ends of the enclosure support members are retained by the frame of the trampoline so that in their natural rest state (when connected only at the lower ends to the frame of the trampoline) the enclosure support members extend away from the mat.
- 30. A trampoline and enclosure system including:
 - a flexible mat:
- a plurality of resiliently flexible spring rods each having a lower end retained by a frame of the trampoline and an upper end coupled to the mat about a periphery of the mat;
- a plurality of resiliently flexible generally upright enclosure support members retained at or towards the lower ends of the enclosure support members by the frame of the trampoline and which are connected together at or towards the upper ends of the enclosure support members to draw the upper ends of the enclosure support members away from their natural rest state (when connected only at their lower ends to the frame of the trampoline) and towards the centre of the mat so that the area bounded by the upper ends of the enclosure support members is not greater than the area of the mat; and
- a barrier of a flexible material surrounding the mat above the mat and within the enclosure support members and supported above the mat in tension by the enclosure support members.
- 31. A trampoline and enclosure system according to claim 30, wherein said barrier comprises a flexible net material.
- 32. A trampoline and enclosure system according to either of claims 30 and 31 wherein the enclosure support members are resiliently flexible rods.

- 33. A trampoline and enclosure system according to any one of claims 30 to 32, wherein the enclosure support members are pultruded fibreglass rods.
- 34. A trampoline and enclosure system according to any one of claims 30 to 33 wherein the barrier is supported by the enclosure support members by connections between the barrier only at or towards an upper peripheral edge part of the barrier and the enclosure support members.
- 35. A trampoline and enclosure system according to any one of claims 30 to 34 wherein the lower ends of the enclosure support members are retained by the frame of the trampoline so that in their natural rest state (when connected only at the lower ends to the frame of the trampoline) the enclosure support members extend away from the mat.